

ARP FUNCTIONALITY

ABSTRACT OF THE DISCLOSURE

A data transmission system and method for transmitting packetized data from an Internet Protocol (IP) host, having at least an IP layer and a network layer, to a plurality of workstations by the intermediary of an IP network, wherein the IP host is connected to the IP network via a layer 2 network interfacing the IP network with a set of routers. The IP host further includes a Multiple Address Resolution Protocol (MARP) layer between the IP layer and the network layer for selecting one of the set of routers in response to the next hop IP addresses provided by the IP layer to the MARP layer when a packet of data is to be transmitted from the IP host to one of the workstations.

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